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TITLE: Device and method for low complexity
of motion picture
encoder

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BASIC-ABSTRACT:

NOVELTY - A device and a method for low complexity of motion
picture encoder
are provided to apply to various fields, and to substitute
hardware for

software to be easily implemented.

DETAILED DESCRIPTION - If a video signal through an NTSC(National Television Standards Committee) decoder(1) is converted with scanning by the block and delivered, an Inter/Inter decision unit(3) decides encoding to intra or inter for each macro block. A DCT(Discrete Cosine Transform) unit(4) converts a coefficient for conversion for the macro block into a frequency coordinate. A quantizer(5) transposes amplitude into a positive number value, for outputting. A variable length coder(6) outputs length proportioned to an algebra absolute value of appearance frequencies through a buffer in a compressed video signal. An Intra/Inter decision unit(10) decides encoding of Intra or Inter, for the macro block fed-back through a dequantizer(8) and an inverse DCT unit(9) from the quantizer(5). A motion estimation and compensation unit(12) estimate motion vector while storing the video signal in a frame memory by the one frame, and compensates the estimated motion vector. A motion compensation/motion non-compensation decision unit(13) decides whether to apply motion compensation for the video signal delivered to the motion estimation and compensation unit(12).

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS: DEVICE METHOD LOW COMPLEX MOTION PICTURE ENCODE

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